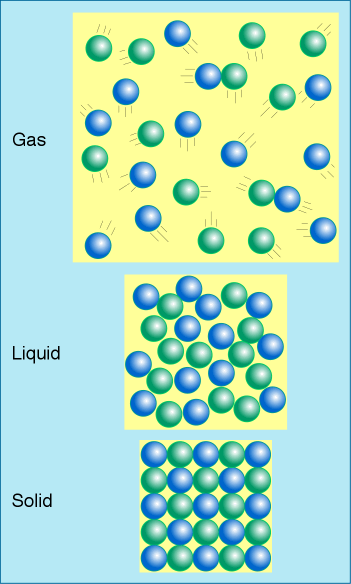
**CHALKBOARD OUTLINE**

3 States of Matter:



Temperature

Kinetic Molecular Theory

Which of these 3 states of matter takes up the most space? **GAS**

**Class Predictions:**

Prediction 1

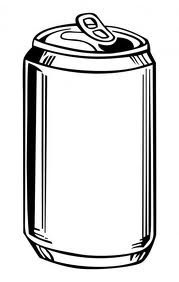
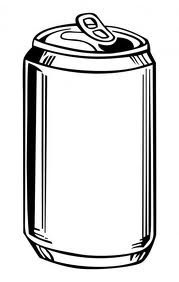
Prediction 2

Prediction 3

Prediction etc...

**Results:**

The can instantly collapsed!

[](http://www.google.ca/imgres?q=can&um=1&hl=en&sa=N&rlz=1R2DACA_en-GB&biw=1280&bih=605&tbm=isch&tbnid=0q-tfrtI6_wuZM:&imgrefurl=http://www.alibaba.com/buyofferdetail/103444683/aluminum_beverage_can_production_line_manufacturer.html&docid=hqD68wtXIrVUsM&imgurl=http://img.alibaba.com/img/buyoffer/103444683/aluminum_beverage_can_production_line_manufacturer.jpg&w=318&h=500&ei=G3Q5T5zTNPC30QHwxYnvBQ&zoom=1) [](http://www.google.ca/imgres?q=can&um=1&hl=en&sa=N&rlz=1R2DACA_en-GB&biw=1280&bih=605&tbm=isch&tbnid=0q-tfrtI6_wuZM:&imgrefurl=http://www.alibaba.com/buyofferdetail/103444683/aluminum_beverage_can_production_line_manufacturer.html&docid=hqD68wtXIrVUsM&imgurl=http://img.alibaba.com/img/buyoffer/103444683/aluminum_beverage_can_production_line_manufacturer.jpg&w=318&h=500&ei=G3Q5T5zTNPC30QHwxYnvBQ&zoom=1)

Water

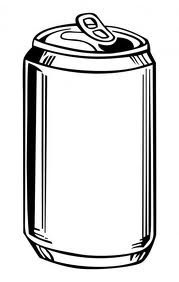
Water

Vapour

Air

Initial Boiling

**What happened?**

[](http://www.google.ca/imgres?q=can&um=1&hl=en&sa=N&rlz=1R2DACA_en-GB&biw=1280&bih=605&tbm=isch&tbnid=0q-tfrtI6_wuZM:&imgrefurl=http://www.alibaba.com/buyofferdetail/103444683/aluminum_beverage_can_production_line_manufacturer.html&docid=hqD68wtXIrVUsM&imgurl=http://img.alibaba.com/img/buyoffer/103444683/aluminum_beverage_can_production_line_manufacturer.jpg&w=318&h=500&ei=G3Q5T5zTNPC30QHwxYnvBQ&zoom=1)

The **atmospheric pressure** outside of the can was greater than the pressure inside of the can.

Water

**Other experiment ideas:**

Brainstorm

**Conclusion:**

As we temperature, the gas takes up more space.

As we temperature, the pressure inside the can